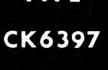


TECHNICAL INFORMATION

nce in Electr

SUBMINIATURE POWER PENTODE

TYPE



400"

max.

The CK6397 is a filament type RF Power Pentode of subminiature construction designed for use as an intermittent duty cycle Class A or Class C amplifier such as in portable transceiver equipment or as a frequency doubler at output frequencies in the VHF Range. It is designed for dependable operation under conditions of shock and vibration usually found in mobile and aircraft applications. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard 8-pin subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

ENVELOPE: T-3 Glass

BASE: Subminiature Button 8-Pin (0.017" tinned flexible leads. Length: 1.25" min.)

TERMINAL CONNECTIONS:

Lead 1 Filament, negative
Lead 2 No Connection
Lead 3 Plate
Lead 4 No Connection

Lead 4 No Connection

Lead 6 Grid #2
Lead 7 Filament, positive
Lead 8 Grid #1

Lead 5 Filament center-tap, Grid #3, (F+parallel) MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (µµfds)

	<u>Unshielded</u>	Shielded
Grid to Plate: (gl to p)	0.06	0.055 max.
Input: gl to (F+g2+g3)	2.6	2.75
Output: p to (F+g2+g3)	2.15	3.0

RATINGS - ABSOLUTE MAXIMUM VALUES:

_			
	Filament Voltage (dc)	1.25/2.5 ± 12%	volts
	Plate Voltage	135	volts
	Grid #2 Voltage	135	volts
	Grid #1 Voltage	100	volts
	Plate Dissipation	1.5	watts
	Grid #2 Dissipation	0.6	watt
	Cathode Current	14	ma.
	Grid #1 Current	0.375	ma.
	Altitude	60,000	feet
	Impact	500	g

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A AMPLIFIER:

Filament Voltage	1.25/2.5	volts
Filament Current	125/62.5	ma.
Plate Voltage	125	volts
Grid #2 Voltage	125	volts
Grid #1 Voltage	-7.5	volts
Plate Current	7,25	ma.
Grid #2 Current	1.2	ma.
Transconductance	1950	μ mhos

CHARACTERISTICS AND TYPICAL OPERATION - FREQUENCY DOUBLER:

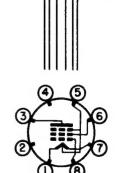
Filament Voltage (dc)	1.25	1.25	volts
Filament Current	125	125	ma.
DC Plate Voltage	120	120	volts
DC Grid #2 Voltage	120	120	volts
Grid Bias Resistance	0.27	0.22	meg.
Peak RF Grid Drive Voltage	65	80	volts
Plate Current	6.5	7.5	ma.
Grid #2 Current	2.0	2.50	ma.
Grid #1 Current (approx.)	220	325	μo.
Useful Power Output	115	140	mw.
Output Frequency	125	250	Mc.

Tentative Data

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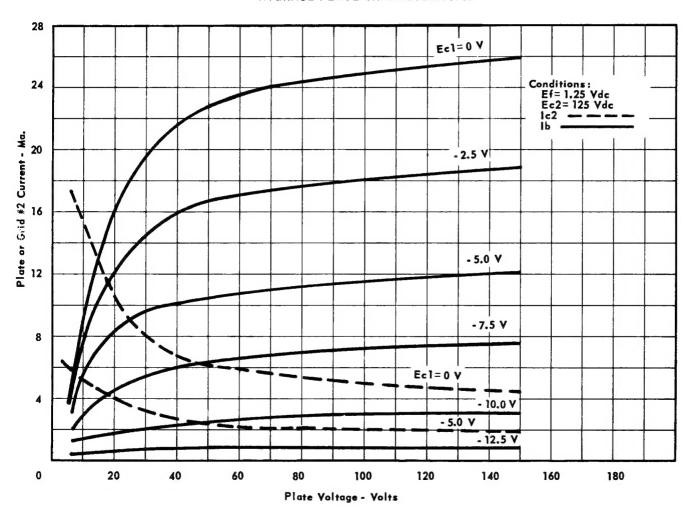
BOTTOM VIEW

6CL



SUBMINIATURE POWER PENTODE

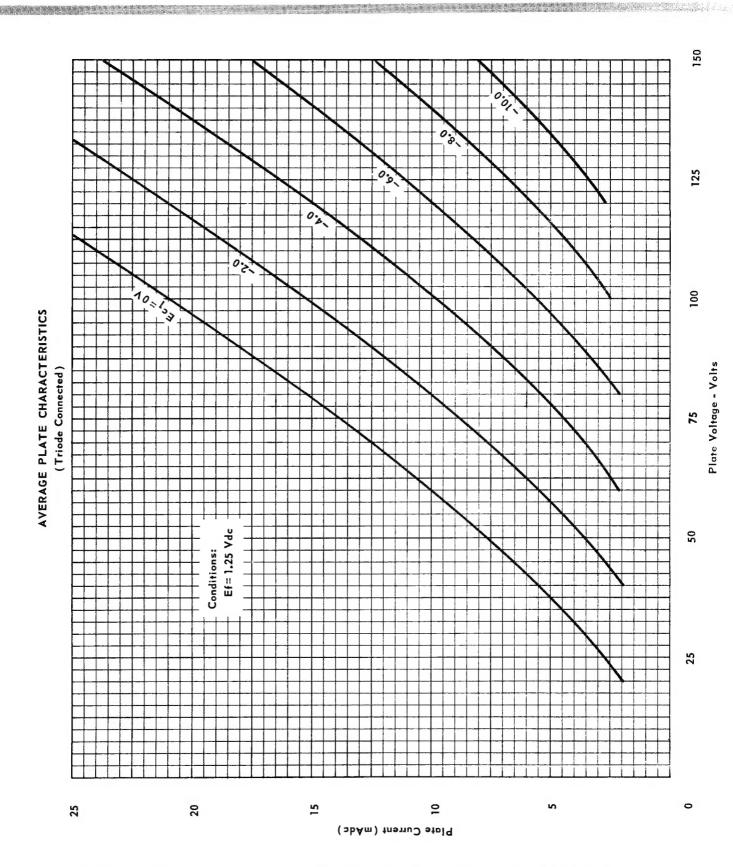
AVERAGE PLATE CHARACTERISTICS



RAYTHEON MANUFACTURING COMPANY



SUBMINIATURE POWER PENTODE



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